Contents

Number 1, March 1980

J. S. Pethick: Salt-marsh initiation during the Holocene transgression: the example of the North Norfolk marshes, England 1

Bruce J. MacFadden: Rafting mammals or drifting islands?: biogeography of the Greater Antillean insectivores *Nesophontes* and *Solenodon* 11

J. B. Kirkpatrick and C. F. Hutchinson: The environmental relationship of Californian coastal sage scrub and some of its component communities and species 23

Uriel N. Safriel, Anat Gilboa and Tamar Felsenburg: Distribution of rocky intertidal mussels in the Red Sea coasts of Sinai, the Suez Canal and the Mediterranean coast of Israel, with special reference to recent colonizers 39

Douglas S. Glazier: Ecological shifts and the evolution of geographically restricted species of North American *Peromyscus* (mice) 63

P. J. G. Polderman: The saltmarsh algal communities in the Wadden area, with reference to their distribution and ecology in N.W. Europe. II. The zonation of algal communities in the Wadden area 85

P. A. Parsons: Parallel climatic races for tolerances to high temperature-desiccation stress in two *Drosophila* species 97

Number 2, June 1980

C. D. Woodroffe, D. R. Stoddart and M. E. C. Giglioli: Pleistocene patch reefs and Holocene swamp morphology, Grand Cayman Island, West Indies 103

P. J. G. Polderman: The saltmarsh algal communities in the Wadden area, with reference to their distribution and ecology in N.W. Europe. III. The classificatory and semantic problems of saltmarsh algal communities 115

I. D. Hodkinson: Present-day distribution patterns of the holarctic Psylloidea (Homoptera: Insecta) with particular reference to the origin of the nearctic fauna 127
(Corrigendum, p. 414)

Michael Huston: Soil nutrients and tree species richness in Costa Rican forests 147

Yan B. Linhart: Local biogeography of plants on a Caribbean atoll 159

M. Nunez: The calculation of solar and net radiation in mountainous terrain 173

G. R. Coope, R. L. Jones and D. H. Keen: The palaeoecology and age of pear at Fliquet Bay, Jersey, Channel Islands 187

J. B. Kirkpatrick and M. Nunez: Vegetation–radiation relationships in mountainous terrain: eucalypt-dominated vegetation in the Risdon Hills, Tasmania 197

Number 3, September 1980

F. S. Gilbert: The equilibrium theory of island biogeography: fact or fiction? 209

Kenneth B. Cawker: Evidence of climatic control from population age structure of *Artemisia tridentata* Nutt. in southern British Columbia 237

N. G. Bayfield: Replacement of vegetation on disturbed ground near ski lifts in the Cairngorm Mountains, Scotland 249

P. G. Holland: Transplant experiments with trout lily at Mont St Hilaire, Quebec 261

D. R. Stoddart: Mangroves as successional stages, inner reefs of the northern Great Barrier Reef 269

Julian A. Steyermark and G. C. K. Dunsterville: The lowland floral element on the summit of Cerro Guaiquinima and other cerros of the Guayana highland of Venezuela 285

Contents

Number 1, March 1980

J. S. Pethick: Salt-marsh initiation during the Holocene transgression: the example of the North Norfolk marshes, England 1

Bruce J. MacFadden: Rafting mammals or drifting islands?: biogeography of the Greater Antillean insectivores *Nesophontes* and *Solenodon* 11

J. B. Kirkpatrick and C. F. Hutchinson: The environmental relationship of Californian coastal sage scrub and some of its component communities and species 23

Uriel N. Safriel, Anat Gilboa and Tamar Felsenburg: Distribution of rocky intertidal mussels in the Red Sea coasts of Sinai, the Suez Canal and the Mediterranean coast of Israel, with special reference to recent colonizers 39

Douglas S. Glazier: Ecological shifts and the evolution of geographically restricted species of North American *Peromyscus* (mice) 63

P. J. G. Polderman: The saltmarsh algal communities in the Wadden area, with reference to their distribution and ecology in N.W. Europe. II. The zonation of algal communities in the Wadden area 85

P. A. Parsons: Parallel climatic races for tolerances to high temperature-desiccation stress in two *Drosophila* species 97

Number 2, June 1980

C. D. Woodroffe, D. R. Stoddart and M. E. C. Giglioli: Pleistocene patch reefs and Holocene swamp morphology, Grand Cayman Island, West Indies 103

P. J. G. Polderman: The saltmarsh algal communities in the Wadden area, with reference to their distribution and ecology in N.W. Europe. III. The classificatory and semantic problems of saltmarsh algal communities 115

I. D. Hodkinson: Present-day distribution patterns of the holarctic Psylloidea (Homoptera: Insecta) with particular reference to the origin of the nearctic fauna 127
(Corrigendum, p. 414)

Michael Huston: Soil nutrients and tree species richness in Costa Rican forests 147

Yan B. Linhart: Local biogeography of plants on a Caribbean atoll 159

M. Nunez: The calculation of solar and net radiation in mountainous terrain 173

G. R. Coope, R. L. Jones and D. H. Keen: The palaeoecology and age of pear at Fliquet Bay, Jersey, Channel Islands 187

J. B. Kirkpatrick and M. Nunez: Vegetation–radiation relationships in mountainous terrain: eucalypt-dominated vegetation in the Risdon Hills, Tasmania 197

Number 3, September 1980

F. S. Gilbert: The equilibrium theory of island biogeography: fact or fiction? 209

Kenneth B. Cawker: Evidence of climatic control from population age structure of *Artemisia tridentata* Nutt. in southern British Columbia 237

N. G. Bayfield: Replacement of vegetation on disturbed ground near ski lifts in the Cairngorm Mountains, Scotland 249

P. G. Holland: Transplant experiments with trout lily at Mont St Hilaire, Quebec 261

D. R. Stoddart: Mangroves as successional stages, inner reefs of the northern Great Barrier Reef 269

Julian A. Steyermark and G. C. K. Dunsterville: The lowland floral element on the summit of Cerro Guaiquinima and other cerros of the Guayana highland of Venezuela 285

A. E. Burger, A. J. Williams and J. C. Sinclair: Vagrants and the paucity of land bird species at the Prince Edward islands 305

Number 4, December 1980

Nicholas Flower: The management history and structure of unenclosed woods in the New Forest, Hampshire 311

Timothy M. Reed: Turnover frequency in island birds 329

F. van der Meulen and R. H. Westfall: Structural analysis of Bushveld vegetation in Transvaal, South Africa 337

A. D. Hooley, Wendy Southern and A. P. Kershaw: Holocene vegetation and environments of Sperm Whale Head, Victoria, Australia 349

P. G. Holland: Trout lily in Nova Scotia: an assessment of the status of its geographic range 363

Donald Lee Johnson: Problems in the land vertebrate zoogeography of certain islands and the swimming powers of elephants 383

Ian Abbott and Robert Black: Changes in species composition of floras on islets near Perth, Western Australia 399

Book review; Corrigendum 411

Author Index

Abbott, I. 399
Bayfield, N.G. 249
Black, R. 399
Burger, A.E. 305
Cawker, K.B. 237
Coope, G.R. 187
Dunsterville, G.C.K. 285
Felsenburg, T. 39
Flower, N. 311
Giglioli, M.E.C. 103
Gilbert, F.S. 209
Gilboa, A. 39
Glazier, D.S. 63
Hodkinson, I.D. 127, 414
Holland, P.G. 261, 363
Hooley, A.D. 349
Huston, M. 147
Hutchinson, C.F. 23
Johnson, D.L. 383
Jones, R.L. 187
Keen, D.H. 187
Kershaw, A.P. 349
Kirkpatrick, J.B. 23, 197
Linhart, Y.B. 159
MacFadden, B.J. 11
Nunez, M. 173, 197
Parsons, P.A. 97
Pethick, J.S. 1
Polderman, P.J.G. 85, 115
Reed, T.M. 329
Safriel, U.N. 39
Sinclair, J.C. 305
Southern, W. 349
Steyermark, J.A. 285
Stoddart, D.R. 103, 269
van der Meulen, F. 337
Westfall, R.H. 337
Williams, A.J. 305
Woodroffe, C.D. 103